

03568000 TENNESSEE RIVER AT CHATTANOOGA, TN

LOCATION.--Lat 35°05'12", long 85°16'42", Hamilton County, Hydrologic Unit 06020001, 0.5 mi downstream from South Chickamauga Creek, 3.0 mi downstream from Chickamauga Dam, 3.5 mi upstream from Walnut Street Bridge in Chattanooga, and at mile 467.6.

DRAINAGE AREA.--21,400 mi², approximately.

PERIOD OF RECORD.--April 1874 to current year. Monthly discharges only for some periods, published in WSP 1306. July 1930 to December 1935, published as "at Hales Bar, near Chattanooga." Gage-height records collected in this vicinity since 1874 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 353: 1874-1912. WSP 783: 1917. WSP 823: 1875(M). WSP 973: 1942. WSP 1306: 1916(M). WSP 1386: 1932-34 (station at Hales Bar near Chattanooga).

GAGE.--Water-stage recorder. Datum of gage is 621.12 ft above NGVD of 1929. Prior to Feb. 1, 1939, nonrecording or recording gages at several sites from 7.0 mi upstream from Chattanooga to Hales Bar Dam 33 mi downstream at or within 0.2 ft of present datum, except nonrecording gage at Bridgeport, AL, 49.9 mi downstream at different datum Oct. 22, 1913, to Feb. 28, 1915, and Oct. 1, 1918, to Jan. 5, 1921. Auxiliary gages at several sites parts of periods since Feb. 28, 1915. Present auxiliary gage at site 2.2 mi downstream from base gage at same datum.

REMARKS.--Records fair. Flow regulated since 1936 by many upstream reservoirs (see p. 370 and Water Resources Data for adjoining states).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 410,000 ft³/s, Mar. 1, 1875, gage height, 53.8 ft, present datum, at Walnut Street, from rating curve extended above 250,000 ft³/s; minimum daily, 1,090 ft³/s, May 18, 2004; minimum gage height, 0.0 ft, Sept. 11-14, 1881, Sept. 19, 1883.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 57.9 ft, Mar. 11, 1867, present datum at Walnut Street, discharge about 459,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 153,000 ft³/s, Dec. 13; maximum gage height, 28.35 ft, Dec. 9; minimum daily discharge, 16,300 ft³/s, May 15; minimum gage height, 10.77 ft, Mar. 20.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45,200	31,900	75,500	57,900	44,400	66,700	33,600	22,100	29,100	38,200	41,700	40,700
2	46,000	45,200	82,200	58,500	45,800	65,700	38,800	32,800	30,300	28,700	45,900	35,400
3	31,100	45,500	95,300	55,400	45,800	58,600	50,700	34,100	29,500	29,100	44,600	31,100
4	31,000	47,100	120,000	52,000	46,100	47,600	48,400	31,200	24,000	27,100	45,600	27,400
5	40,300	52,300	114,000	49,600	39,200	43,900	51,900	30,300	35,500	36,100	39,900	29,200
6	39,900	49,100	117,000	42,000	32,400	37,000	51,100	34,800	34,700	33,500	24,900	43,300
7	41,100	46,300	132,000	37,400	39,000	41,900	51,800	25,300	37,000	49,200	20,400	44,100
8	41,500	49,100	135,000	36,600	43,800	48,700	55,200	25,200	36,300	55,100	41,900	35,100
9	40,900	55,700	139,000	38,700	42,900	46,800	50,400	25,300	29,200	60,600	44,700	37,100
10	41,200	55,600	139,000	42,100	38,000	47,200	46,000	26,100	43,900	60,400	45,100	43,500
11	38,900	55,000	138,000	52,700	37,900	46,300	37,000	22,500	35,100	62,100	46,600	45,300
12	40,900	55,600	141,000	59,400	35,800	47,000	51,100	22,700	37,400	58,900	39,100	42,800
13	41,000	55,900	139,000	59,000	31,200	42,100	38,300	25,800	49,400	48,600	24,700	41,100
14	41,000	55,300	134,000	63,900	37,500	43,500	42,400	19,300	36,100	45,500	19,900	46,700
15	41,700	54,700	109,000	73,100	30,600	38,600	41,200	16,300	39,000	43,900	45,900	45,500
16	42,900	54,800	85,400	71,900	35,200	43,400	38,400	21,400	41,700	48,900	44,000	41,100
17	41,900	54,500	85,400	71,400	46,300	44,200	29,400	21,300	39,900	46,300	42,400	41,300
18	39,500	54,300	83,300	70,900	44,400	44,100	26,900	27,700	40,700	44,800	43,500	42,800
19	36,600	53,600	81,800	62,900	48,700	25,700	28,100	33,900	39,700	45,700	35,500	43,600
20	46,200	53,000	80,900	44,300	48,800	23,000	29,800	25,800	35,700	46,800	29,100	45,200
21	38,100	52,700	80,000	46,800	53,000	27,200	29,900	31,800	36,300	47,700	22,600	45,300
22	40,200	52,600	79,000	40,800	57,700	25,700	26,800	39,100	40,400	42,100	45,600	45,500
23	41,900	53,200	71,400	46,200	54,900	24,800	20,200	34,600	42,000	45,700	42,200	48,000
24	41,200	60,200	60,100	48,600	50,000	28,400	23,000	36,900	41,600	39,200	41,900	45,400
25	40,700	72,500	59,100	47,800	56,200	26,100	24,100	37,500	26,500	46,600	42,300	44,700
26	40,100	61,500	57,800	45,600	68,100	21,500	22,000	45,000	24,900	42,100	40,400	39,100
27	40,600	59,100	58,100	47,400	66,800	23,500	19,800	33,800	32,600	42,400	25,300	37,600
28	41,300	70,100	58,200	45,200	66,500	31,300	19,000	24,700	36,500	38,200	20,700	36,100
29	41,900	69,200	57,600	50,200	---	37,800	20,100	24,300	38,500	33,600	42,600	28,100
30	46,200	68,700	57,600	50,800	---	36,300	32,900	28,400	38,000	21,900	44,500	28,500
31	37,000	---	57,900	44,600	---	31,900	---	31,400	---	22,700	39,300	---
TOTAL	1,258,000	1,644,300	2,923,600	1,613,700	1,287,000	1,216,500	1,078,300	891,400	1,081,500	1,331,700	1,172,800	1,200,600
MEAN	40,580	54,810	94,310	52,050	45,960	39,240	35,940	28,750	36,050	42,960	37,830	40,020
MAX	46,200	72,500	141,000	73,100	68,100	66,700	55,200	45,000	49,400	62,100	46,600	48,000
MIN	31,000	31,900	57,600	36,600	30,600	21,500	19,000	16,300	24,000	21,900	19,900	27,400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2005, BY WATER YEAR (WY)

MEAN	29,420	34,650	44,870	48,390	50,060	46,050	28,400	28,870	29,710	29,960	31,610	29,460
MAX	63,270	68,330	94,310	127,900	132,800	98,850	107,800	87,890	65,280	49,670	43,580	60,050
(WY)	(1990)	(1958)	(2005)	(1974)	(1957)	(1963)	(1994)	(1984)	(1989)	(1989)	(2003)	(2004)
MIN	16,690	16,340	13,660	17,370	20,520	14,380	7,503	7,805	11,310	11,230	12,740	14,090
(WY)	(1984)	(1988)	(1988)	(1986)	(2000)	(1988)	(1986)	(1988)	(1988)	(1988)	(1988)	(1968)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		*WATER YEARS 1954 - 2005	
ANNUAL TOTAL	14,515,030		16,699,400		35,910	
ANNUAL MEAN	39,660		45,750		53,260	
HIGHEST ANNUAL MEAN					15,070	
LOWEST ANNUAL MEAN					251,000	
HIGHEST DAILY MEAN	153,000	Sep 18	141,000	Dec 12	1,090	Mar 18, 1973
LOWEST DAILY MEAN	1,090	May 18	16,300	May 15	4,800	May 18, 2004
ANNUAL SEVEN-DAY MINIMUM	4,800	Apr 10	21,200	Apr 23	267,000	Apr 10, 2004
MAXIMUM PEAK FLOW			153,000	Dec 13	38.98	Mar 18, 1973
MAXIMUM PEAK STAGE			28.35	Dec 9		
10 PERCENT EXCEEDS	71,400		64,600		58,500	
50 PERCENT EXCEEDS	36,700		42,200		31,500	
90 PERCENT EXCEEDS	8,330		25,800		15,700	

* Regulated period only.

